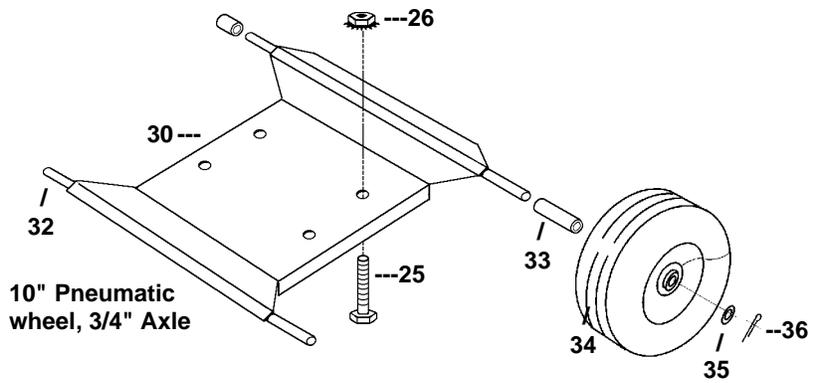
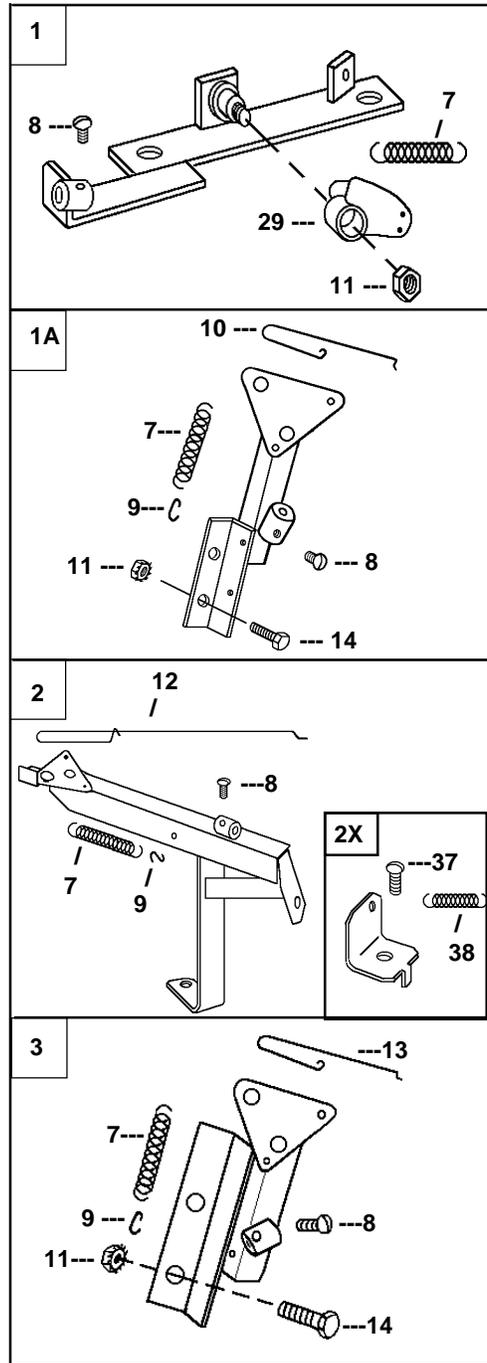
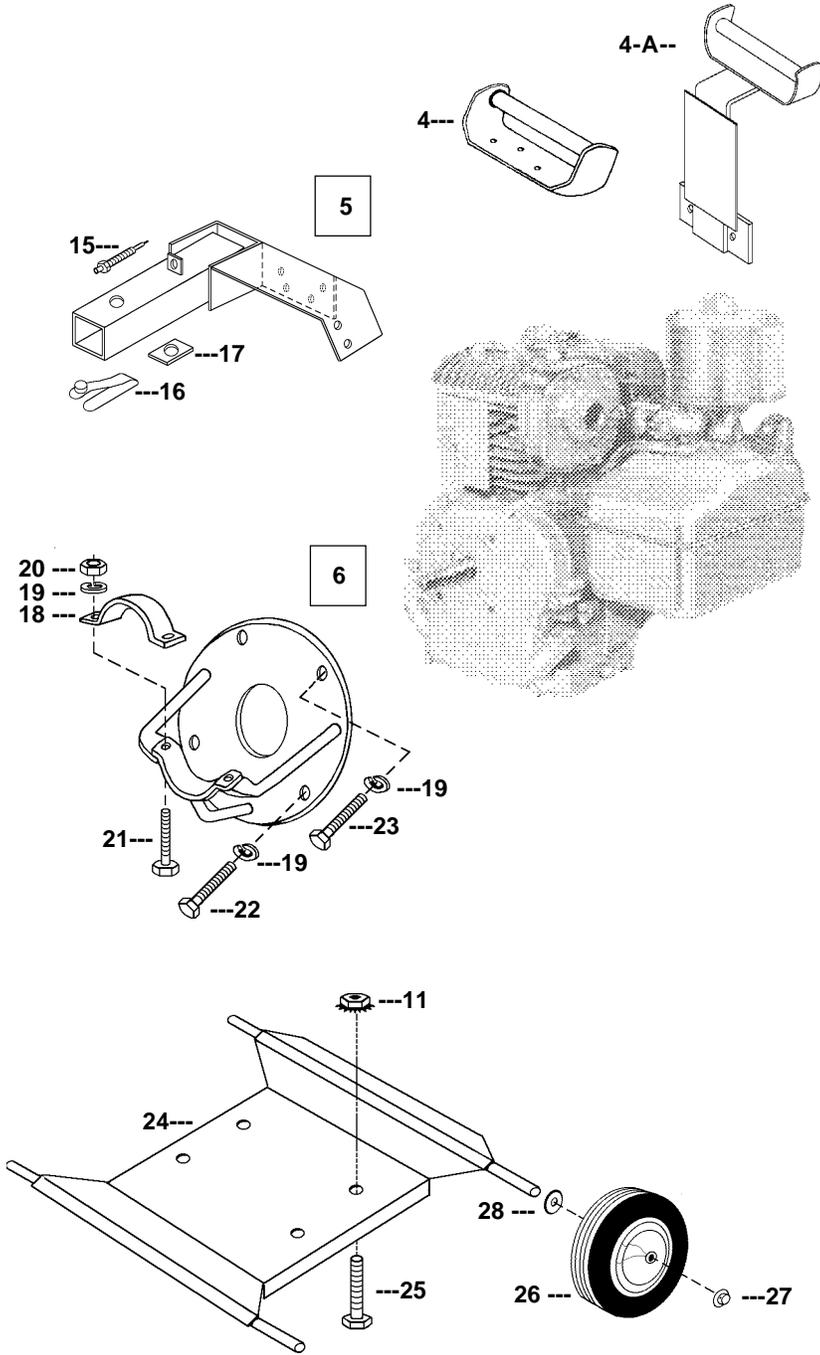


MECHANICAL PARTS MANUAL

NOTES:

5 HP ENGINE ASSEMBLY

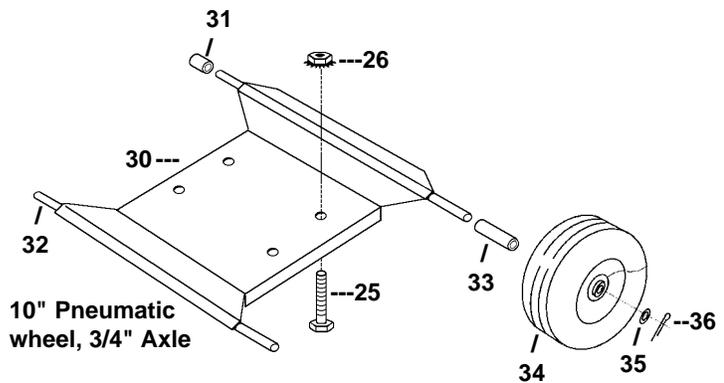
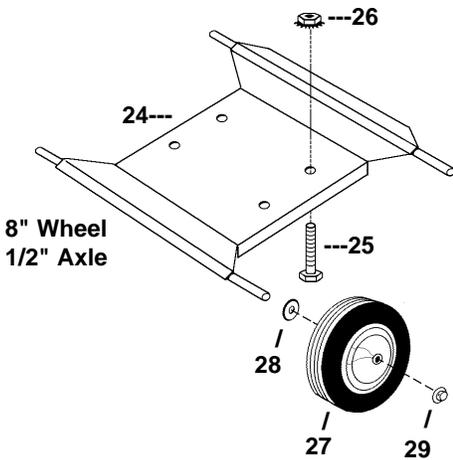
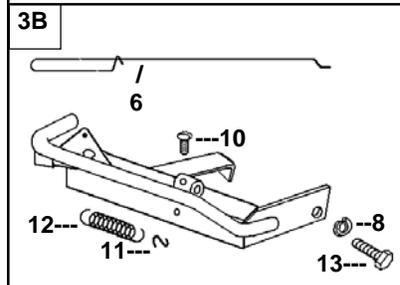
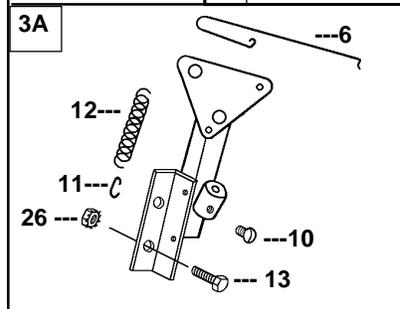
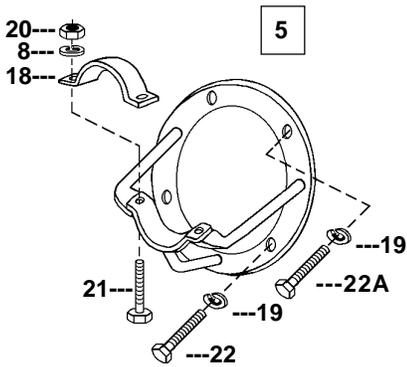
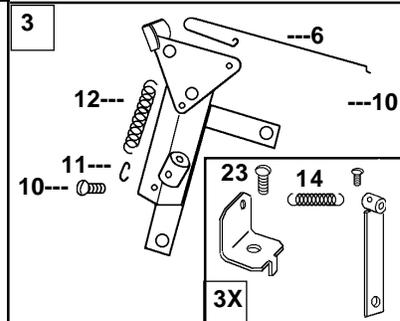
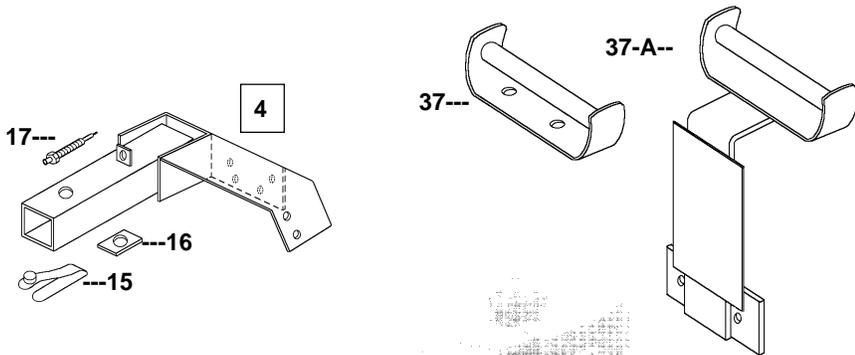
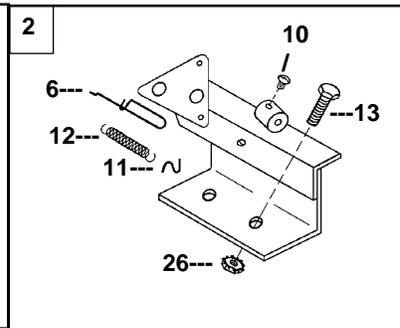
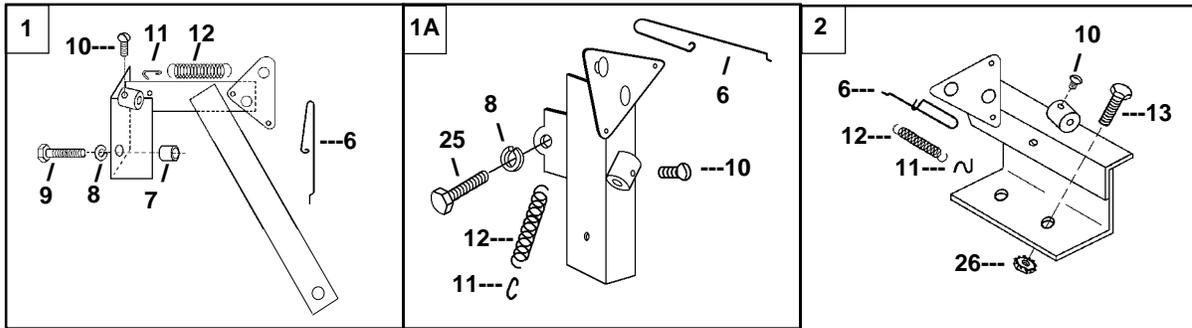


5 HP ENGINE ASSEMBLY

ITEM	PART #	DESCRIPTION	QTY
1	3085-A	Throttle Bracket Assy. 5HP B&S & B&S I/C (Industrial/Commercial)	1
1A	3082-A	Throttle Bracket Assy. 5 HP B&S Industrial Plus	1
	3082-V	Throttle Bracket Assy. 5.5 HP B&S Vanguard Engine	1
	3084-A	Throttle Bracket Assy. 5.5 HP B&S INTEK Pro Engine	1
2	-----	Obsolete, order #TCO-5H Throttle Bracket Change-over Kit	
		Includes Spring Anchor Assy.(2X), Throttle Wire, Housing, and Loom	1
2X	3092-A	Spring Anchor Assy. 5HP Honda Direct Throttle Hook-up	1
3	3050-A	Throttle Bracket Assy. 5 HP Wisconsin W1-185	1
4	3000-C	Handle - Motor Carrier, 5HP B&S & B&S I/C ONLY	1
4A	3000-CD	Handle - Motor Carrier, 5 & 8HP B&S Intek Pro ONLY	1
	3000-CDH	Handle - Motor Carrier, 5 & 8HP Honda ONLY	1
5	9084-G	Torque Tube Bracket Assy. - Engine End	1
6	3011-MA	Clutch Bracket Assy. Model 5	1
7	4041-2H	Spring	1
8	3010-8	Screw, 10-32 x 1/4"	1
9	3010-7	S-Hook	1
10	3010-5B	Clip, 5HP B&S Industrial Plus Engine	1
	3010-2	Clip, 5.5HP Vanguard	1
	3010-5I	Clip, 5HP B&S Intek Pro Engine	1
11	3002-KEP	Nut 5/16-18 (Nut w/Lockwasher)	4
12	3010-H	Clip, 5HP Honda GX140/GX160	1
13	3010-4	Clip, 5HP Wisc. W1-185	1
14	3012-1T	Screw 5/16" x 3/4" G5, Hex NC	2
15	3007-9	Kill Switch, Torque Tube	1
16	9058	Spring & Button	1
17	9084-1	Spacer	1
18	4018-2H	Clamp (incl. 2 ea #9027-10, 3002-C & #30318)	1
19	3002-C	Lock Washer, 5/16"	6
20	30318	Nut, 5/16"-18, w/Nylon Insert Lock	2
21	9027-10	Screw 5/16"-18 x 1-1/4"	2
22	3012-1	Screw 5/16" x 7/8", Hex SAE	2
23	9084-2	Screw 5/16" x 1 1/4" GR5, Hex SAE	2
24	3000-B	Motor Carrier	1
25	3002	Screw 5/16" x 1-1/2" NC	4
26	3004	Wheel, 8" (incl. #3006-1)	4
27	3006-1	Cap-Axle Snap (incl. w/#3004)	4
28	3004-A	Flat Washer	4
29	3087	Governer Control, 5HP B&S	1
30	3000-EV	Carrier ONLY, Medium Clearance for 5.5HP Vanguard Engine	1
31	3031-A	Spacer, 1-5/8"	2
32	3030	Axle	2
33	3031-B	Spacer, 3-1/8"	2
34	30258	Wheel, 10" Pneumatic	4
35	30164	Flat Washer 3/4"	4
36	30163	Cotter Key, Wheel, 1/8" x 1"	4
37	5079	Screw, 10-32 x 3/8 Machine	1
38	4041-2	Spring, Throttle 5Honda Direct Hook-Up and Throttle Lever	1



7 & 8 HP ENGINE ASSEMBLY

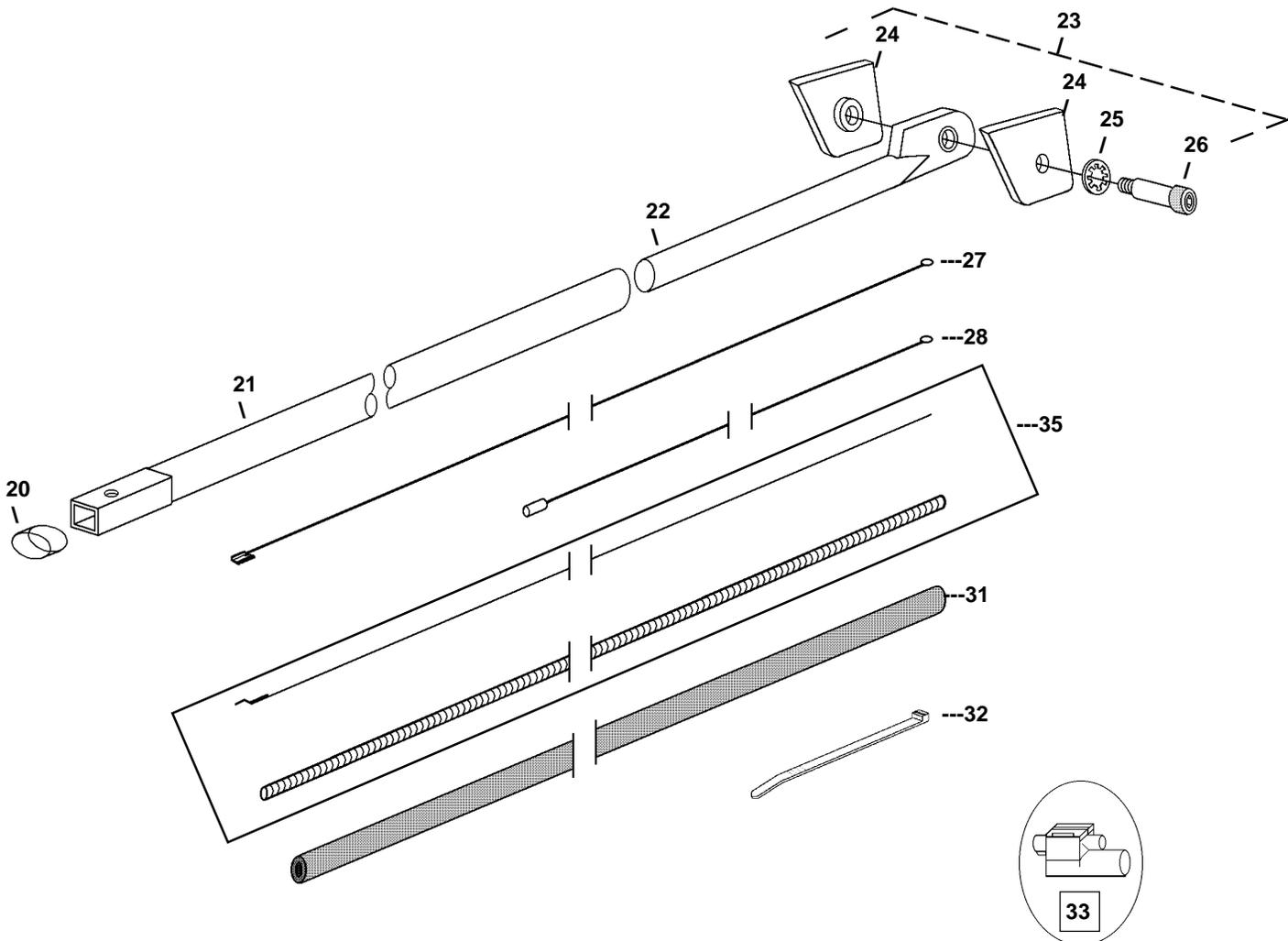
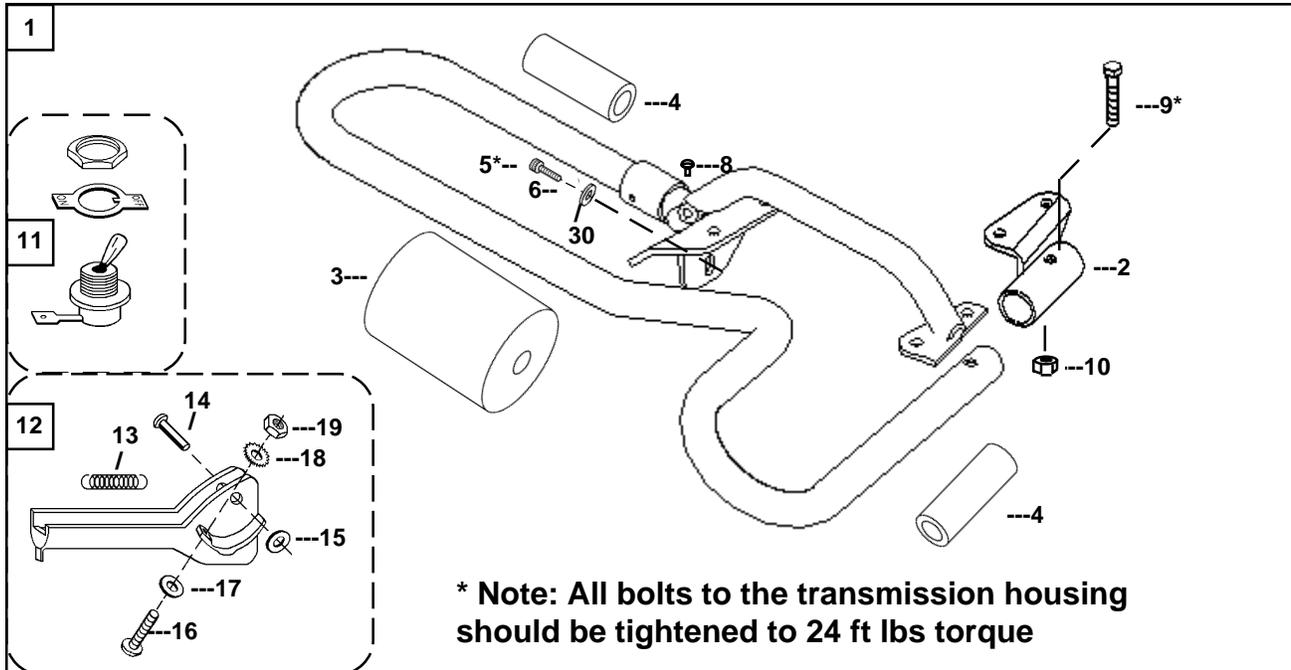


7 & 8 HP ENGINE ASSEMBLY

ITEM	PART #	DESCRIPTION	QTY
1	3010-D	Throttle Bracket Assy. 7 HP B&S Engine	1
1A	3065-A	Throttle Bracket Assy. 8 HP B&S Industrial Plus Engine	1
2	3095-A	Throttle Bracket Assy. 7 HP Wisconsin Engine	1
3	-----	Obsolete, order #TCO-8H Throttle Bracket Change-over Kit includes New Guide (3X), Throttle Wire, Housing, Loom and spring	1
3A	3088-A	Throttle Bracket Assy. 7.5 HP B&S Vanguard Engine	1
3B	3055-A	Throttle Bracket Assy. 8 HP B&S INTEK Pro Engine	1
3X	3063-A	Cable Guide Assy. 8HP Honda Direct Throttle Hook-up	1
4	9084-G	Torque Tube Bracket Assy. - Engine End	1
5	3011-HMA	Clutch Bracket Assy. Model 7	1
6	3010-4	Clip	1
	3010-H	Clip, 8 HP Intek (and 5HP Honda)	1
	3010-4H	Clip, 8HP Honda	1
	3010-5B	Clip, 8HP B&S Industrial Plus Engine	1
	3010-2	Clip, 7.5 HP B&S Vanguard Engine	1
7	3010-10	Spacer	1
8	3002-C	Lock Washer 5/16"	4
9	3010-9	Screw 5/16" x 2" NC Grade 2	1
10	3010-8	Screw, 10-32 x 1/4"	1
11	3010-7	S-Hook	1
12	4041-2H	Spring	1
13	3012-1T	Screw 5/16" x 3/4" Grade 2	2
14	4041-2	Spring, Throttle 8 HP Honda Direct Hook-Up and Throttle Lever	1
15	9058	Spring & Button	1
16	9084-1	Spacer	1
17	3007-9	Kill Switch, Torque Tube	1
18	4018-2H	Clamp (incl. 2 ea #9027-10, 3002-C & #30318)	1
19	3012-3	Lock Washer, 3/8"	4
20	30318	Nut 5/16"-18 Nylon Insert Lock	2
21	9027-10	Screw 5/16"-18 x 1-1/4"	2
22	3012-2	Screw 3/8" x 1" NC (Bottom)	2
22A	9027-8	Screw 3/8" x 1 1/4" Hex NC GR5 (Top)	2
23	5079	Screw, 10-32 x 3/8 Machine	1
24	3000-B	Carrier (incl. 4 #3004-A)	1
25	3002-A	Cap Screw 5/16" x 1-3/4" NC	4
26	3002-KEP	Nut 5/16-18 (Nut w/Lockwasher)	6
27	3004	Wheel, 8" (incl. 3006-1)	4
28	3004-A	Flat Washer	4
29	3006-1	Cap-Axle Snap (incl. w/#3004)	4
30	3000-E	Carrier ONLY, Medium Clearance	1
	3000-G	Carrier ONLY, 8 HP B&S INTEK	1
31	3031-A	Spacer, 1-5/8"	2
32	3030	Axle	2
33	3031-B	Spacer, 3-1/8"	2
34	30258	Wheel, 10" Pneumatic	4
35	30164	Flat Washer 3/4"	4
36	30163	Cotter Key, Wheel, 1/8" x 1"	4
37	3000-C7	Handle, Motor Carrier, 7HP B&S Engine ONLY	1
37A	3000-CD	Handle, Motor Carrier, with Decal, 5 & 8 HP B&S Intek Pro ONLY	1
	3000-CDH	Handle, Motor Carrier, with Decal, 5 & 8 HP Honda ONLY	1



HANDLE, TORQUE TUBE AND WIRES

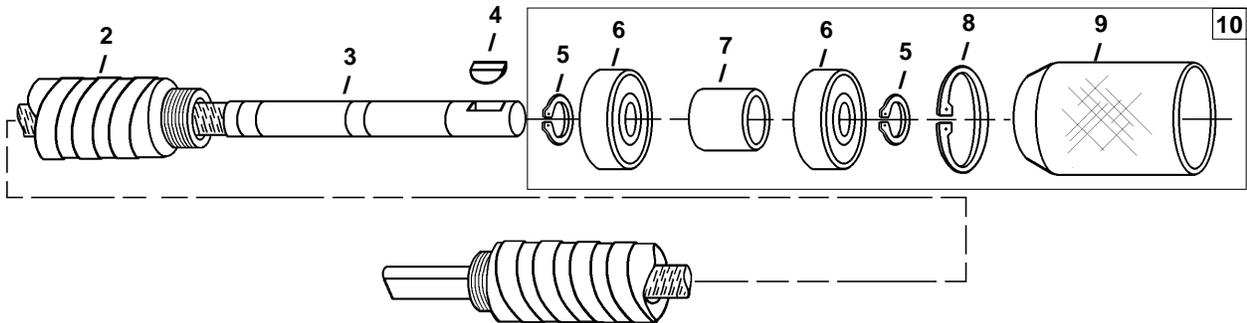


HANDLE, TORQUE TUBE AND WIRES

ITEM	PART #	DESCRIPTION	QTY
1	10428-A	Handle, Loop includes Switch and Throttle Lever If your machine is not equipped with this handle, but is the Oil Bath Transmission, you can upgrade by ordering part # HCO-M# which would include the handle assembly and the new transmission lid.	1
2	10429	Clamp, Bushing, Right	1
3	10460	Leg Pad	1
4	10440	Handle Grip, Left & Right	2
5	10306	Socket Head Cap Screw, 5/16 -18 x 3/4	1
6	3002-C	Washer, 5/16 Split Lock, Heavy Plated	4
7	10305	Washer, 5/16 Flat	4
8	3010-8	Screw, 10-32 x 1/4"	1
9	3002-A	Screw, 5/16 x 1-3/4 Hex Head Cap Screw	1
10	30318	Nut, Nylon Lock, 5/16"	1
11	10470	Kill Switch Assembly	1
12	4031-1	Throttle Lever Assembly	1
13	4041-2	Spring, Return, Throttle Lever	1
14	4033	Rivet	1
15	4033-1	Flat Washer, #10	1
16	4034-A	Screw, 10-32 X 5/8"	1
17	4034-1	Flat Washer, 3/16", 1/4" Standard	11
18	4034-2	Lock Washer, #10, External	1
19	4034-3	Nut, 10-32 Hex	1
20	9058-1	Button Shield	1
21	10340	Torque Tube, Female, 69" long	1
22	10350	Torque Arm, Male end	1
23	10360-R	Bushing Repair Kit (incl. 2 Bushings, Washer & Shoulder Bolt)	1
24	10360	Bushing, Torque Arm	2
25	10380	Internal Star Washer, 5/8"	1
26	10370	Shoulder Bolt, 5/8" x 1 3/4"	1
27	3007-6	Kill Switch Wire-Long	1
	3007-6B	Kill Switch Wire-Long-5HP B&S ONLY	1
	3007-6H	Kill Switch Wire-Long 5 & 8HP Honda Direct Throttle	1
	3007-8W	Kill Switch Wire-Long 5,7&8HP Wisc./Honda/B&S Ind Plus, 8HP Intek & 5.5 Vang.	1
28	3007-8	Kill Switch Wire-Short	1
30	10520	Washer, Belleville	1
31	3007-6P	Wire Loom	1
32	3007-5	Plastic Tie	5
33	9090-W	Wire Splicer, Wisc., Honda & B&S Industrial Plus Only	1
34	10302	Screw, 5/16 x 1-1/4 Socket Head	4
35	3089	Throttle Control Assembly (inc. 3008 & 3009) 109" OAL	1
	3089-5H	Throttle Control Assembly 115" OAL 5HP Honda Direct Throttle	1
	3089-8H	Throttle Control Assembly 119" OAL 8HP Honda Direct Throttle	1



FLEXIBLE SHAFT



ITEM	PART #	DESCRIPTION	QTY
	3124	Flexible Drive Shaft Assembly, Complete	1
2	3124-1	Housing, Flexible Drive Shaft	1
3	3124-2	Core, Flexible Drive Shaft (inc. #4019, #3024-16 & #3124-19)	1
	3124-2EA	Core with End Assembly	
4	4019	Key (inc. w/#3124-2)	1
5	3024-16	Lock Ring-Inner, End Assembly (inc. w/#3124-2)	2
6	3024-13	Bearing	2
7	3124-19	Spacer (inc. w/#3124-2)	2
8	3024-15	Lock Ring-Outer, End Assembly	2
9	3024-17	Knurled Housing, End Assembly	1
10	3124-4	End Assembly Kit	1

RECOMMENDED GREASE: Lubriplate Portable Tool Grease (GR-132)

Available in 10 oz. tube form, also in case of 12.

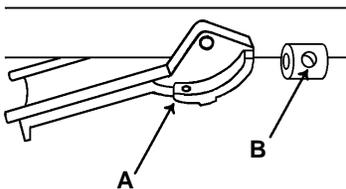
ORDER PART #9070-L

IMPORTANT: Shafts should be examined every 50 to 100 hours of use and greased if necessary, using recommended grease.

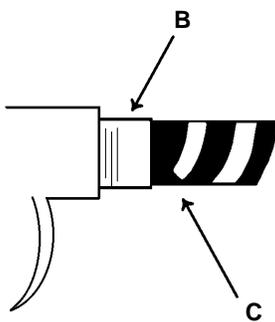
GREASING INSTRUCTIONS: Follow steps 1, 2, 4 & 5 of the Flexible Drive Shaft Dis-Assembly instructions on the following page.



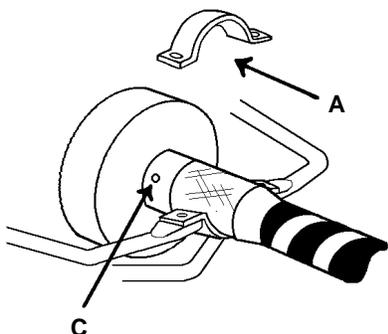
FLEXIBLE SHAFT DIS-ASSEMBLY



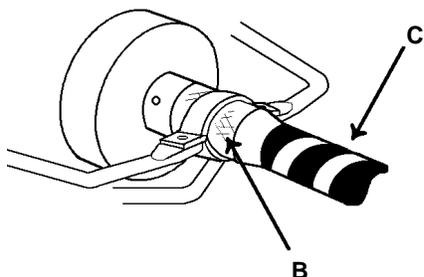
1. REMOVE KILL SWITCH WIRE & THROTTLE WIRE
 - A. Disconnect at throttle lever.
 - B. Loosen anchor bolt on handle.
 - C. Pull kill switch wire from kill switch.
 - D. Un-wrap wires from flexible shaft and lay aside.



2. DETACH SHAFT FROM TRANSMISSION
 - A. Loosen two bolts on clamp #4018-2H (Item A in step 3) so that end assembly can turn.
 - B. Using a pipe wrench, hold #10150 (silver) retainer in place. NOTE: Do not unscrew the 10150 retainer from the transmission housing. If it does unscrew, use caution in re-inserting it. The aluminum threads are easily damaged or cross-threaded.
 - C. With a second pipe wrench, turn the (black) flexible shaft COUNTER-CLOCKWISE to loosen and remove.



3. TO DISCONNECT COMPLETE SHAFT ASSEMBLY
 - A. Remove clamp #4018-2H from clutch bracket.
 - B. Pry clutch drum loose, freeing clutch drum and complete shaft assembly from power unit.
 - C. To detach clutch drum from shaft, loosen two allen screws on clutch drum and pry loose from shaft.



4. TO REMOVE FLEXIBLE SHAFT CORE AND HOUSING ONLY
 - A. Complete steps 1 and 2 above.
 - B. Hold flexible shaft end piece in place with pipe wrench.
 - C. Using a second pipe wrench, turn flexible shaft housing COUNTER-CLOCKWISE freeing it from the end assembly.
 - D. To remove core from end assembly, complete step 3. Remove key and outer snap ring, slide knurled housing down, remove outer bearing and spacer. Remove lock ring bearing and lock ring.

5. RE-ASSEMBLY
 - A. BEFORE re-assembling core and housing of flexible shaft, remove all old grease.
 - B. Re-grease by applying grease to core while inserting into flexible shaft housing. (Recommended grease-Lubriplate Portable Tool Grease - Order Part #9070-L)
 - C. After greasing, re-assemble by reversing dis-assembly procedures.



TRANSMISSION, OIL BATH

ITEM	PART #	DESCRIPTION	QTY
	10010	Transmission Assy.10:1 w/Adaptor, less Handle and Torque Arm	1
	10020	Transmission Assy.20:1 w/Adaptor, less Handle and Torque Arm	1
	10030	Transmission Assy.13.33:1 w/Adaptor, less Handle and Torque Arm	1
	Transmissions for Loop handle following (see page P-6 of this manual for Loop Handle)		
	10010-L	Transmission Assy.10:1 w/Adaptor, less Loop Handle and Torque Arm	1
	10020-L	Transmission Assy.20:1 w/Adaptor, less Loop Handle and Torque Arm	1
	10030-L	Transmission Assy.13.33:1 w/Adaptor, less Loop Handle and Torque Arm	1
1	10040	Cover Plate	1
	10041	Cover Plate for Loop Handle	1
2	10050	Bearing, Upper Main Shaft, #6205	1
3	10060	Spacer, Main Shaft	1
4	10070	Bronze Gear, 10:1 Ratio, 1-1/4" Bore, Double Keyed	1
	10072	Bronze Gear, 20:1 Ratio, 1-1/4" Bore, Double Keyed	1
	10075	Bronze Gear, 13:1 Ratio, 1-1/4" Bore, Double Keyed	1
5	10080	Main Shaft, includes 2 #10115 Seals	1
6	10090	Key Main Shaft - #806 Woodruff	2
7	10100	Bearing, Lower Main Shaft #6206	1
8	10130	Body, Casting	1
9	10115	Seal, Main Shaft #471736 (for new style main shaft of 1/95).	2
11	10140	Snap Ring, 1-3/4" External Housing Ring	1
12	10150	Coupling, Pinion Shaft, includes 10170 seal	1
13	10170	Seal, Pinion Shaft inc. w/10150 coupling	1
14	10180	Bearing, Front Pinion Shaft, #6905	1
17	10191	Pinion Gear Shaft, 10:1	1
	10193	Pinion Gear Shaft, 20:1	1
	10196	Pinion Gear Shaft, 13.33:1	1
18	KT4-1040	Screw, Socket Hd. 5/16 x 1-1/2	2
19	10210	Bearing, Rear Pinion Shaft #6302-RSR	1
20	10260	Pipe Plug	1
21	9021	Allen Screw 1/4"-20 x 1/4"	1
22	10230-K	O-Ring, Cover Seal (All-In-One)	1
25	10310	Vent Plug, Oil	1
26	10320	Deflector, Vent Plug	1
27	10300	Screw, Socket Head, 5/16" x 1" (If for Loop Handle, 2 must be 1-1/4" Long, #10302 and 2 must be 1-1/2" long, #KT4-1040)	10
28	3002-C	Washer, 5/16" Split Lock	10
29	10305	Washer, 5/16" Flat SAE	7
30	10330	Dowel Pin, 1/4" x 1"	2
31	30272	Adaptor, Keyed Shaft to Auger, mounting hardware incl.	1
32	10520	Washer, Williams, 3/8"	1
33	10305	Washer, 5/16 Standard Flat	1
34	10490	Cap Screw, Socket Head, 5/16"-18 x 1" w/Locking Plug	1
35	9058-1	Button Shield, Only	1
36	4081	Key, Adaptor	1
37	10425	Handle Brace for 2 piece handle	1
38	30171	Set Screw, 5/16 x 5/16	1

WHEN ORDERING TRANSMISSION PARTS BE SURE TO INCLUDE SERIAL NUMBER OF TRANSMISSION, LOCATED ON BOTTOM OF HOUSING

IMPORTANT: LUBRICATING INSTRUCTIONS Can be found on page P-13



OIL BATH TRANSMISSION
INSTRUCTIONS FOR DIS-ASSEMBLING AND ASSEMBLING

(Refer to key #'s on Page P-6 & P-10)

TO DIS-ASSEMBLE:

1. Uncouple throttle wire and throttle wire housing. Remove kill switch wire.
2. Remove shoulder bolt #26, torque arm #22 and torque arm bushing #24 from transmission (see page 6).
Note: You may have to remove right handle clamp screw #5 before torque arm and bushings will come out.
3. Uncouple flexible drive shaft from retainer and coupling #12 by holding retainer with a pipe wrench and unscrewing drive shaft housing with a second pipe wrench. NOTE: the flexible drive shaft housing is black. The retainer is unpainted. Break loose where these items join. (right hand thread)
4. Remove pipe plug #20 and drain oil from transmission.
5. Remove 8 bolts #9 and nuts #10 from handle clamps and cover plate #1. Remove right and left handles.
6. Remove 10 screws #27, flat washers #29 and lock washers #28 from transmission. Note the location and orientation of the vent plug cover #26.
7. Tap the underside of the cover plate to remove it. Note the location of the O-rings for proper reassembly. There are 8 #24 O-rings, 2 #23 O-rings and 1 #22 O-ring. Do not lose the O-Rings.
8. Remove vent plug #25 from the cover plate if it needs to be replaced.
9. Remove set screw #21, holding retainer #12. Unscrew retainer using a pipe wrench. (right hand thread)
10. Remove seal #13 from retainer #12 by pressing out from threaded end.
11. Loosen set screw #36 and remove screw #35, flat washer #33 and lock washer #34 from the adaptor #31. Using a ball joint wrench, remove the adaptor from the main shaft #5 by tapping the wrench between the housing and the adaptor. Try not to burr the housing if possible. Note screw #35 has a nylon insert, replace it with the same type.
12. Using a small punch, tap on pinion gear/shaft #15 at shoulder A to remove it from the housing. Press bearing #14 off of shaft.
13. Remove spacer #3 from main shaft.
14. Turn housing upside down and tap main shaft #5 out of housing.
15. Remove bearing #7 from housing by tapping or pressing out of housing.
16. Remove seal retainer ring #11 from housing, using snap-ring pliers.
17. Turn housing over and tap seals #9 out of housing.
18. Tap bronze gear #4 off of main shaft. Keys #6 will be free.
19. Using pilot bearing puller, remove bearing #19 if it needs to be replaced.

TO ASSEMBLE:

1. Press 2 seals #9 into transmission housing #8 (old style main shaft uses seal #472475 and #471733, new style main shaft effective 1/95 uses 2 #471736 seals). Install seal retainer ring #11 into housing.
2. Press bearing #7 into housing.
3. Turn housing on the side and press bearing #19 into housing. Note: Be sure that Bearing #19 goes in straight, since the housing is cast at an angle.
4. Screw pipe plug #20 into housing.



Transmission Assembly Continued...

5. Press bearing #2 into cover plate #1.
6. Screw vent plug #25 into cover plate. Use teflon thread sealant tape on vent plug.
7. Tap keys #6 into main shaft #5, then press bronze gear #4 on main shaft.
8. Push main shaft, with gear, through bearing #7 and the seals.
9. Place spacer #3 on the main shaft, resting on the top of the bronze gear.
10. Press seal #13 onto coupling #12.
11. Hold housing secure and push pinion gear/shaft into the housing.
12. Place loctite on the threads of the housing and screw retainer #12 into housing and tighten with a pipe wrench.
This retainer is easy to crossthread, so line the threads up carefully. Replace and tighten set screw #21 to secure retainer
13. Holding housing level, place 2 O-rings #23 over dowel pin holes and 8 O-rings #24 over bolt holes and 1 O-ring #22 in groove around top of housing.
14. Holding housing level, pour recommended oil (see page O-6) in housing. Oil level should come up to the top of spacer #3.
15. Place cover plate #1 on the top of the housing. Tap lightly so bearing will go on main shaft. Be sure that all O-rings stay in their proper places and do not fall into bottom of housing. Be sure they are fitting in their groove.
16. Align dowel pin holes and push dowel pins #30 all the way into the housing.
17. Place vent plug cover #26 over vent plug and screw 2 screws #27 with lock washers #28 and flat washers #29 on top of vent cover. Tighten to 24 ft. lbs.
18. Screw 8 screws #27 with lockwashers #28 and flat washers #29 into remaining holes. Tighten to 24 ft. lbs.
19. Tap key #37 onto main shaft. Then tap adaptor #31 on the main shaft . Insert Screw #35 with nylon insert, lock washer #34 and flat washer #33 through adaptor into bottom of main shaft and tighten to 10 ft. lbs. Tighten set screw #36 to secure key and adaptor.
20. Install torque arm #22 with 2 bushings #24 on both sides of torque arm into housing. Insert shoulder bolt #26 with star washer #25 into housing and through holes in bushings and torque arm. Tighten to 100 ft. lbs.
21. Place left and right handles on cover plate. Using bolts #9 and nylon stop nuts #10 secure clamps and handles to cover plate. Tighten to 10 ft. lbs.
22. Add recommended oil every day or as needed. Check oil level each day before use..

LUBRICATING INSTRUCTIONS: When adding oil to transmission, hold the transmission so that the top is level, then remove the pipe plug (item #20) and squeeze oil into the transmission until oil just comes out of the hole. Replace the pipe plug and tighten to 10ft.lbs. **The transmission oil should be checked each day prior to operation, and during the day as conditions warrant. The oil should be changed after the initial 25 hours of use and every 100 hours thereafter. *OIL CAPACITY: 1 US PINT***

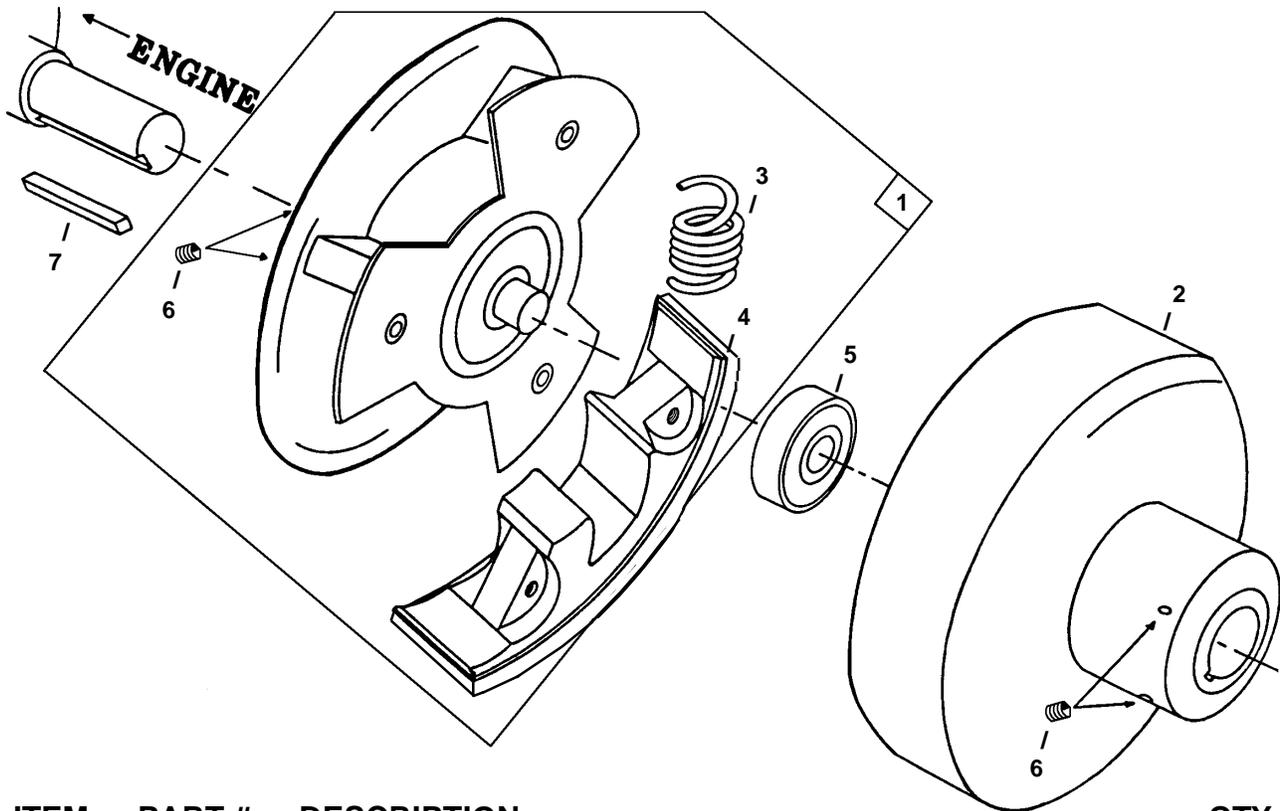
RECOMMENDED OIL Amalie Tri-Vis Plus+ SAE 80W-85W-140 or Penzoil Multi Purpose Gear Oil or equivalent. Available in quart size, also in case of 12.

ORDER PART #10280 OR #10280-A for Case

***NOTICE: DO NOT CROSSTHREAD ITEM #12 COUPLING.
DOING SO WILL CAUSE THE END PIECE OF CORE TO BREAK!***



HEAVY DUTY CLUTCH w/Fiber-Lined Shoes & 4 3/4" O.D. Drum



ITEM	PART #	DESCRIPTION	QTY
1	4375-F	Rotor Assy. Model 5 - 3/4" Bore w/FIBER-LINED shoes, springs & set screws)	1
1	4376-F	Rotor Assy. Model 7 - 1" Bore w/FIBER-LINED shoes, springs set screws)	1
2	4179-F	Clutch Drum, GOLD for FIBER-LINED shoe Rotor (inc. pilot bearing and set screws)	1
3	4382	Clutch Spring	3
4	4383-F	Clutch Shoe, FIBER-LINED	3
5	4021-2F	Pilot Bearing	1
6	4320	Set Screw (Rotor & Drum)	4
7	4080	Key - Rotor Model 4	1
7	4081	Key - Rotor Model 7	1



WARNING: DO NOT START ENGINE unless the clutch drum (Item #2) and flexible shaft have been reassembled and clamped into the clutch bracket (See page 11). Starting the engine without the drum in place will cause the clutch shoes to fly off, damaging the machine and possibly causing severe personal injury.

NOTE: Rotor should be pushed all the way on the crankshaft. Put Loctite on #6 set screws and tighten securely. At full throttle, engine speed should not be less than 3600 RPM. Adjust engine idle to release clutch when throttle lever is released. (Approximately 1900 RPM.)

NOTE: To remove rotor from crankshaft, use a ball joint tool. For 7 HP Models, use a backing plate between the clutch bracket with the ball joint tool.

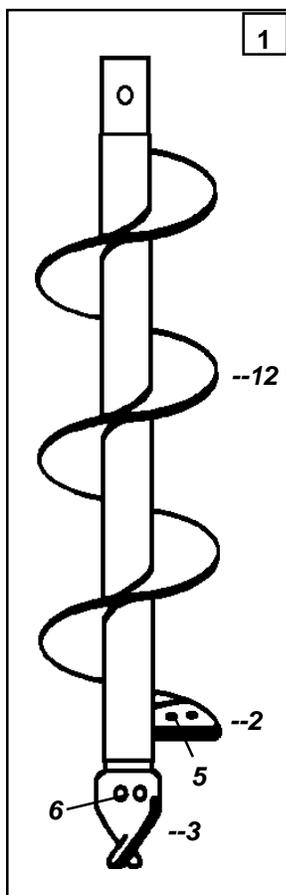
NOTE: When replacing engine, note that 7 & 8HP engine crankshafts are too long. Cut 1-1/4" off the crank shaft of the new engine.



AUGERS & ACCESSORIES

ITEM PART# DESCRIPTION

STANDARD AUGER

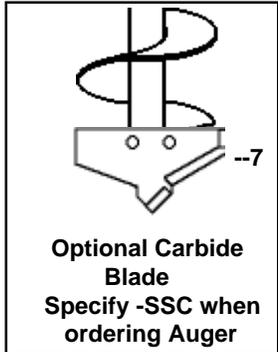


1	1.5X42-SSS 2.5X42B 2.5X42SP 2X36-SSS 2X42-SSS 3X36-SSS 3X42-SSS 4X36-SSS 4X42-SSS 5X36-SSS 5X42-SSS 6X36-SSS 6X42-SSS 7X36-SSS 7X42-SSS 8X36-SSS 8X42-SSS 9X36-SSS 9X42-SSS 10X36-SSS 10X42-SSS 12X36-SSS 12X42-SSS 14X36-SSS 14X42-SSS 16X36-SSS 16X36-SSSF 16X42-SSSF	1-1/2" X 42" Auger, Snap-on with Screw-on Point 2-1/2" X 42" Bucket Auger, Snap-on 2-1/2" x 42" Spiral Barrel Auger (Soil Sampling) 2" X 36" Auger, Snap-on with Screw-on Point 2" X 42" Auger, Snap-on with Screw-on Point 3" X 36" Auger, Snap-on with Screw-on Point 3" X 42" Auger, Snap-on with Screw-on Point 4" X 36" Auger, Snap-on 4" X 42" Auger, Snap-on 5" X 36" Auger, Snap-on 5" X 42" Auger, Snap-on 6" X 36" Auger, Snap-on 6" X 42" Auger, Snap-on 7" X 36" Auger, Snap-on 7" X 42" Auger, Snap-on 8" X 36" Auger, Snap-on 8" X 42" Auger, Snap-on 9" X 36" Auger, Snap-on 9" X 42" Auger, Snap-on 10" X 36" Auger, Snap-on 10" X 42" Auger, Snap-on 12" X 36" Auger, Snap-on 12" X 42" Auger, Snap-on 14" X 36" Auger, Snap-on 14" X 42" Auger, Snap-on 16" X 36" Auger, Snap-on 16" X 36" Auger, Snap-on, Full Flighted 16" X 42" Auger, Snap-on, Full Flighted
2	9023-4 9023-6 9023-8 9023-9 9023-10 9023-12 9023-14 9023-16	Blade for 4" & 5" Augers Blade for 6" & 7" Augers Blade for 8" Augers Blade for 9" Augers Blade for 10" Augers Blade for 12" Augers Blade for 14" Augers Blade for 16" Augers
3	9027 9027-16	Point, Standard, Fits 4" thru 12" Augers Point, Standard, Fits 14" and 16" Augers
4	9058	Spring & Button
5	9023-S4 9023-S9 9023-S12 9023-S16	Cap Screw & Nut w/Lockwasher, 4" - 8" Blades Cap Screw & Nut w/Lockwasher, 9" - 10" Blades Cap Screw & Nut w/Lockwasher, 12" Blades Cap Screw & Nut w/Lockwasher, 14" - 16" Blades
6	9027-7	Cap Screw & Nut w/Lockwasher, Standard Points



ITEM PART# DESCRIPTION

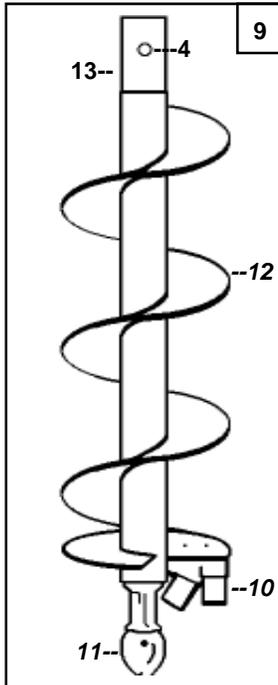
**STANDARD AUGER
WITH CARBIDE POINT**



7	9023-C1.5	Blade, Screw-on, w/Carbide for 1-1/2" Augers
	9023-C2	Blade, Screw-on, w/Carbide for 2" Augers
	9023-C3	Blade w/Carbide for 3" Auger, Inc. Mtng. Bolts/Nuts
	9023-C4	Blade w/Carbide for 4" Auger, " " "
	9023-C5	Blade w/Carbide for 5" Auger, " " "
	9023-C6	Blade w/Carbide for 6" Auger, " " "
	9023-C7	Blade w/Carbide for 7" Auger, " " "
	9023-C8	Blade w/Carbide for 8" Auger, " " "
	9023-C9	Blade w/Carbide for 9" Auger, " " "
	9023-C10	Blade w/Carbide for 10" Auger, " " "
	9023-C12	Blade w/Carbide for 12" Auger, " " "

8	9027-8S	Cap Screw & Lock Nut for Carbides (2 ea.)
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PENGO STYLE AUGERS



9	6X36-SSP	6" x 36" Snap-on Auger w/Pengo Style Point & Blade
	6X42-SSP	6" x 42" Snap-on Auger w/Pengo Style Point & Blade
	7X36-SSP	7" x 36" Snap-on Auger w/Pengo Style Point & Blade
	7X42-SSP	7" x 42" Snap-on Auger w/Pengo Style Point & Blade
	8X36-SSP	8" x 36" Snap-on Auger w/Pengo Style Point & Blade
	8X42-SSP	8" x 42" Snap-on Auger w/Pengo Style Point & Blade
	9X36-SSP	9" x 36" Snap-on Auger w/Pengo Style Point & Blade
	9X42-SSP	9" x 42" Snap-on Auger w/Pengo Style Point & Blade
	10X36-SSP	10" x 36" Snap-on Auger w/Pengo Style Point & Blade
	10X42-SSP	10" x 42" Snap-on Auger w/Pengo Style Point & Blade
	12X36-SSP	12" x 36" Snap-on Auger w/Pengo Style Point & Blade
	12X42-SSP	12" x 42" Snap-on Auger w/Pengo Style Point & Blade
10	9023-P35	Blade, Pengo Style #35 (1 per 6" & 7" Auger, 2 per 8"-12")
	9023-P35HS	Blade, Pengo Style #35HFF Hardsurfaced (Both sides)
	9023-P1336	Blade, Pengo Style #1336 w/Carbide
	9023-P35CT	Blade, Pengo Style w/Carbide
	9023-5T30	Blade, Pengo Style, Chisel Point
	9023-5T30C	Blade, Pengo Style, Chisel Carbide Point

11	9027-P	Point, Pengo Style #SB-25
	9027-PC	Point, Pengo Style #SB-25C w/Carbide

AUGER REPAIR PARTS
Must be welded.

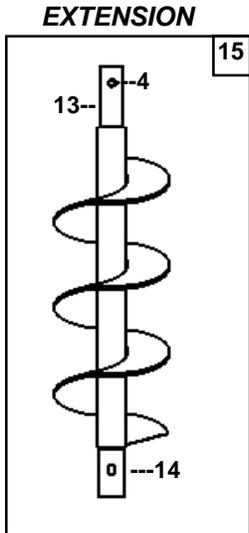
12	FS-3	Flighting, replacement 3" x 37" or 60" Section
	FS-4	Flighting, 4" x 30" or 37" Section
	FS-5	Flighting, 5" x 30" or 37" Section
	FS-6	Flighting, 6" x 30" or 37" Section
	FS-7	Flighting, 7" x 30" or 37" Section
	FS-8	Flighting, 8" x 30" or 37" Section
	FS-9	Flighting, 9" x 30" or 37" Section
	FS-10	Flighting, 10" x 30" or 37" Section
	FS-12	Flighting, 12" x 37" Section
	FS-14	Flighting, 14" x 37" Section
	FS-16	Flighting, 16" x 19" Section

13	9062	Auger Top for 4" thru 10" Augers
	9062-H	Auger Top for 12" thru 16" Augers

14	9062-1	Extension Bottom for 4" thru 10" Extensions
	9062-2	Extension Bottom for 12" thru 14" Extensions

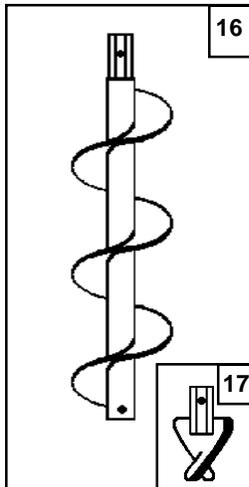


ITEM PART# DESCRIPTION



15	9054	36" Tube Type Snap-on Extension
	9054-A	18" Tube Type Snap-on Extension
	9054-S1.5X36	1-1/2" x 36" Screw-on Ext.(Must use Screw-on Agr)
	9054-S2X36	2" x 36" Screw-on Ext.(Must use Screw-on Auger)
	9054-S3X36	3" x 36" Screw-on Ext.(Must use Screw-on Auger)
	9054-3X36	3" x 36" Snap-on Extension
	9054-4X36	4" x 36" Snap-on Extension
	9054-5X36	5" x 36" Snap-on Extension
	9054-6X36	6" x 36" Snap-on Extension
	9054-7X36	7" x 36" Snap-on Extension
	9054-8X36	8" x 36" Snap-on Extension
	9054-9X36	9" x 36" Snap-on Extension
	9054-10X36	10" x 36" Snap-on Extension
	9054-12X36	12" x 36" Snap-on Extension
	9054-14X36	14" x 36" Snap-on Extension

HEX AUGER/EXTENSION



16	1.5X36-HSL	1-1/2" x 36" Auger/Extension, Hex, Less Point
	1.5X42-HSL	1-1/2" x 42" Auger/Extension, Hex, Less Point
	2X36-HSL	2" x 36" Auger/Extension, Hex, Less Point
	2X42-HSL	2" x 42" Auger/Extension, Hex, Less Point
	3X36-HSL	3" x 36" Auger/Extension, Hex, Less Point
	3X42-HSL	3" x 42" Auger/Extension, Hex, Less Point

17	9027-H1.5	Point, Hex, 1-1/2"
	9027-H2	Point, Hex, 2"
	9027-H3	Point, Hex, 3"

9041-2	Pin, Locking, 1-1/2" & 2" Hex Auger/Extensions
9041-3	Pin, Locking, 3" Hex Auger/Extensions

9040 Spring Ball Plunger, (replace as needed)

ADAPTORS
Auger to Transmission

30272	Adaptor, Keyed, Heavy Duty
9051-GHLB	Adaptor, Ground Hog Drill to LB Auger
9051-GHAS	Adaptor, LB Drill to Ground Hog Auger
9051-GEN	Adaptor, 1-1/4" sq to 1" rd, General
9051-GENS	Adaptor, 1-1/4" sq to 1 3/8" hex, General
9061	Adaptor, Screw-on Auger to Keyed Adaptor
9061-H	Adaptor, 1-1/2" & 2" Hex Auger to Keyed Adaptor
9061-H3	Adaptor, 3" Hex Auger to Keyed Adaptor
9061-A	Adaptor, Drill Chuck to Keyed Adaptor



NOTES: